

Menasha Lock and Dam, Storage Building 2
Approximately 25 feet north of the upper gate
Menasha
Winnebago County
Wisconsin

HAER No. WI-90-E

HAER
WIS
70-MENA,
3E-

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD
Rocky Mountain System Support Office
National Park Service
P.O. Box 25287
Denver, Colorado 80225-0287

HISTORIC AMERICAN ENGINEERING RECORD
MENASHA LOCK AND DAM, STORAGE BUILDING 2

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3E-

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Location: Storage Building 2 at the Menasha Lock and Dam Complex is located on the east side of the Menasha lock, 25 feet north of the upper lock gates in the E1/2, SW1/4, NW1/4, Section 15, T20N, R17E, Civil Town of Menasha, Winnebago County, Wisconsin.

UTM: 16/383320/4895200; USGS Quadrangle: Neenah, Wisconsin 7.5' Series

Date of Construction: 1980

Engineer: United States Army Corps of Engineers with Contractors

Architect: United States Army Corps of Engineers with Contractors

Present Owner: United States Army Corps of Engineers, Detroit District

Present Use: Storage of paint and petroleum products.

Significance: The storage building functions as part of the daily operation of the Menasha Lock and Dam Complex.

Project Information: This documentation was undertaken in 1995 in accordance with requirements detailed in a June 19, 1994 letter from Gregory D. Kendrick, Chief, History Branch, NPS to Dale Monteith, Acting Chief, Planning Division, USACOE, Detroit District. The Lower Fox system remains basically operational but was placed in caretaker status by the USACOE in 1982. The USACOE plans to divest itself of the Lower Fox system as soon as is feasible; therefore, NPS requested this documentation. All documentation conforms to HAER standards.

Dr. John D. Richards, Principal Investigator; Georgia A. Lusk, Patricia B. Richards, and Robert J. Watson, Project Archivists with Great Lakes Archaeological Research Center, Inc.; Joseph Paskus, Project Photographer.

STORAGE BUILDING 2

The Lower Fox River Waterway begins in Menasha, Winnebago County, Wisconsin, and extends 37 miles through De Pere, Outagamie and Brown Counties to Green Bay, Wisconsin. However, for shelving purposes at the Library of Congress, Menasha in Winnebago County was selected as the "official" location for the Lower Fox River Waterway.

Storage Building 2 is 5 feet 4 inches wide, 8 feet long, and 8 feet high. It is located north of the lock shelter and south of the sanitary building. The building has a flat roof with a steel door set in the west wall. The structure is a prefabricated modular design incorporating steelox wall and roof panels. The unit was manufactured by Armco Building Systems of Cincinnati, Ohio.¹ Storage Building 2 is one of seven similar units received by the Fox River Project Office in 1982. Like the other Armco units, Storage Building 2 was erected on a poured concrete slab foundation.

ENDNOTES

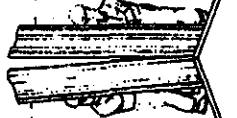
- 1 Armco Steel Buildings, Erection Instructions TL-1 Building, sheets ET-115, ET-116, ET-118, ET-119.

CORNER ERECTION

Starting at a corner, assemble a corner panel and typical panel by bolting the intersecting ribs to the base channel with bolt, first, and nut (S1183). Place the corner and wrench (lighter nut and bolt). Mark door and window locations so that short panels can be installed.

Typical Steel-on-Panels	
8'-0"	54-92
10'-0"	54-92

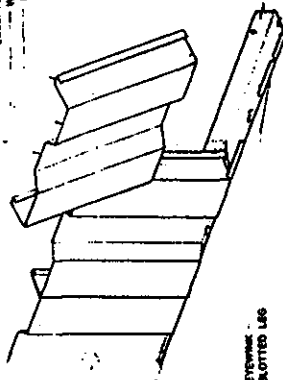
CORNER PANEL	
8'-0"	54-86
10'-0"	54-86



BASE CHANNEL

PANEL'S OVER SHING DOORS	
ALL	51725
8'-0"	54-98
10'-0"	54-504

SCULPTURE WEB RIB

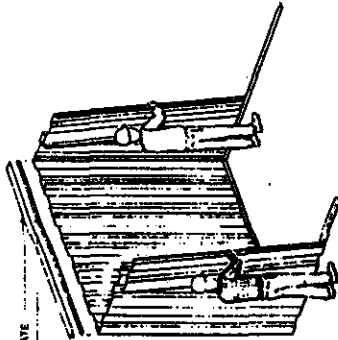


VIEWING SLOTTED LUG

WALL ERECTION

Erect wall panels by placing the bottom of panel on base channel with panel ribs in base channel slots and panel web outside of channel legs. Panel web must be inside of base channel eye-bolt. Interlock male rib with the female rib of the preceding panel and bolt interlocked ribs to the base channel.

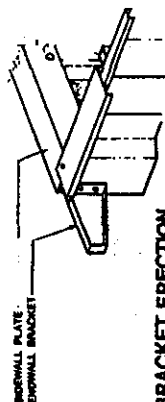
ENDWALL PLATE WALL CAP



WALL CAP AND PLATE SCHEDULE	
BLDG. WIDTH	8'-0"
ENDWALL CAP	60304 50305 60354 50306
REAR OR ENDWALL PLATE	60310 60311 60312 60313
FRONT PLATE	60331 60332 60333 60334

WALL CAP & PLATE ERECTION

Place wall cap and plate on endwall panels. Plumb and square panels and bolt to endwall plates. Erect the side walls, one wall from inside the building and the other wall from inside the building. Install sidewall wall caps and plates against corner panels. Top of front plate should be 1/2" above wall panels and rear plate should rest on wall panels. Erect second and wall and wall cap. Position and wall plates flush with front and rear plates, then wrench tighten all plate bolts. See door and window instructions for installation. For 8'-4" long building field cut sidewall plate and wall cap.



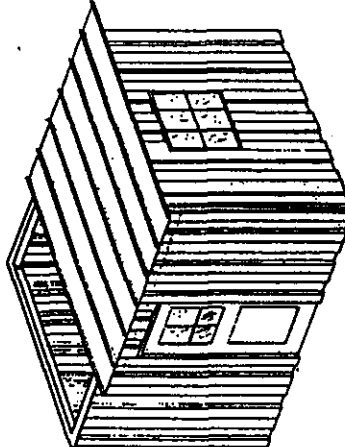
BRACKET ERECTION

Attach and wall brackets (60314 or 60315) flush with top of sidewall plates using two 3/4" x 1/2" TH68 at each corner. Field drill using 3/4" drill.

ROOF ERECTION

* If ceiling is to be installed, it must be erected at the same time as the roof...see SLD ceiling detail.

Check building walls for plumb and square. Apply a continuous strip of tape sealant on top of purlins. Set the first roof panel with the female's rib 8" outside of endwall and with 8" of overhang on each sidewall. Field drill roof panel to match holes in plate and bolt with 1/4" x 3/4" bolts with weather seal washer. Continue setting roof panels bolting only to the rear plate and keeping ends of panels even. Move rear wall and set the roof panels to maintain the 8" overhang. Again check the walls for plumb and square. Field drill and bolt the roof panels to the front plate and endwall plates. Place fascia over male rib of the last roof panel. (Note: If ceiling is to be installed, do not erect last roof panel at this time...see SLD ceiling details.) If alternate nutting-fits is used, see E1-121. Attach same flashing 60335 around building with #10 x 7/8" x 10' O.C. Field cut ends at corners for closing tab.



ROOF PANELS	
BLDG. WIDTH	8'-0"
A L O A D	50378 54648 54649 50065
B L O A D	50378 54648 54649 50067
C L O A D	50378 54648 54649 50067
D L O A D	50378 54648 54649 50067
E L O A D	50378 54648 54649 50067
F L O A D	50378 54648 54649 50067

ROOF AND WALL ERECTION TL-1 BUILDING

9/67	E1-119
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